GREENDRIVEWAY

A GREEN ALTERNATIVE FOR PAVING & LANDSCAPING

Basic Installation Guide GD Gravel 50-35HD(R)

Spec Info: GD Gravel 50-35HD(R) - Honeycomb Gravel Stabilizer Panels

Panels area ± 45.3" x ± 30.7" x 1.4" (1.15 m x ..78 m x 35mm) (MEDIUM) heavy duty black/white or grey injection-molded polypropylene panel having a factory applied geotextile fabric fused to the bottom and are capable of supporting wheelchairs and occasional light truck traffic. Compressive strength is tested under ASTM D 1621-04a and is 1016 kg/0.0175 m^2. Loading capacity is > 250 tons/m^2, >350 psi, when filled with gravel over the specified base.

GD Gravel Infill Materials:

A. For a permeable system, fill cells with clean, angular or round stones, gravel or decorative stones.

B. Infill gravel sizes ranges between 1/8" to 1/2", but the ideal size is 3/8", and can be either clear or pre-washed of all fines before delivering to the site. No gravel less than 1/8" nor more than 1/2" is recommended.

D. Install infill gravel by back-dumping into the cells from buckets mounted on rubber-tired tractors. Avoid sharp turns of the tractor, driving only on gravel-filled cells. Spread gravel laterally from the pile using power brooms, blades, flat bottomed shovels and/or wide asphalt rakes to fill the cells. Depending on the size of the project, you can compact the gravel with a vibrating plate compactor. If using pea gravel, no plate compaction is necessary.

GD Gravel 50-35HD(R) Installation:

1. Excavate area allowing for unit thickness and top layer. Leave 45 mm (1.8 inches) for GD gravel® 50-35 (35 mm) and top layer (10 mm) to meet final grade.

2. Excavate and shape foundation soils to grades, elevations, and dimensions as necessary for your site, or as per drawings. Be sure water will flow away from any structures.

3. If site requires a structural base, fill with ¾" road crush as necessary. A typically homeowner driveway will require a minimum of 2" of road crush, but site specific conditions may call for a deeper subbase. Maximum base layer: 6" (i.e. parking lot).

4. Compact your base layer with a vibratory plate, compactor, or roller.

5. Place the panels. Position the panels on the prepared subgrade with geotextile face down. Cut to shape with aviation shears or skill saw with fine-toothed blade. Use protective gloves to avoid abrasions. Top of hexagon cell panels should be 1 cm (10 mm) below adjacent hard surfaced pavements or final grade.

6. All hard surface abutting areas to receive GD gravel surfacing shall be in place prior to commencing work. Finished gravel work should be no more than ½" below adjacent hard surfaces.

7. Place first row of panels against a stationary edge if possible. The panels have interlocking connectors. You can install panels 'side by side' or in a 'herring bone" pattern; either method works. No anchors are needed for gravel stabilizer panels installed on slopes less than 20 degrees.

8. Fill cells with chosen infill. Maximum particle size of granular infill material should not exceed ½". Minimum particle size can be 1/8" to allow porosity. Cell walls must be sufficiently covered with infill to prevent any equipment or load bearing vehicular traffic from damaging the grid.

9. Install edge restraint if desired. Standard metal, plastic, concrete edge restraints or concrete curbing may be used.

10. You can: Water stones thoroughly for an immediate finished look!

GD Gravel Post-Placement:

A. Reserve a few 5 g. buckets of infill stones on site to top dress as necessary over the next year. Once the area is fully packed, top dressing is no longer necessary.

B. Snow plowing – Use shovels or blades with plastic blades. If using a metal blade, set blade 2" above gravel surface, leaving a layer of snow. This system is free draining during freeze/thaw events.

C. Use of salt for de-icing is allowed.